



# Denny Substation Project

DRAFT ENVIRONMENTAL IMPACT STATEMENT

Prepared for Seattle City Light  
March 27, 2014

# Welcome!



Photo: Kenneth Lu

## Draft EIS

ENVIRONMENTAL IMPACT STATEMENT

## Public Hearing

APRIL 16, 2014 • 6:00 TO 9:00 PM

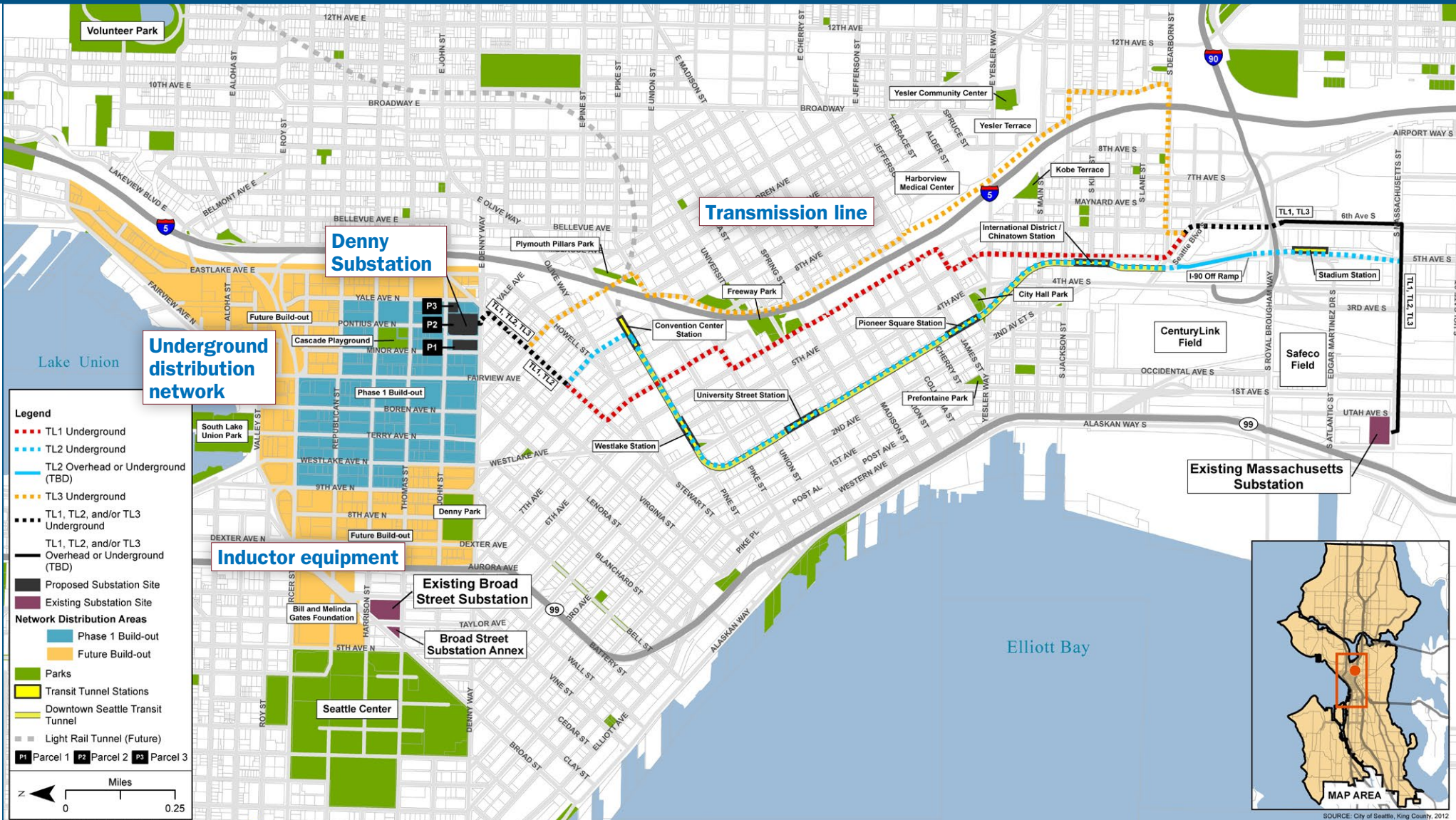
OPEN HOUSE 6:00 TO 7:00

HEARING 7:00 TO 9:00

BERTHA KNIGHT LANDES ROOM  
SEATTLE CITY HALL



# Proposed Project



The project is not expected to have any unavoidable significant adverse impacts.





# Project Components & Objectives

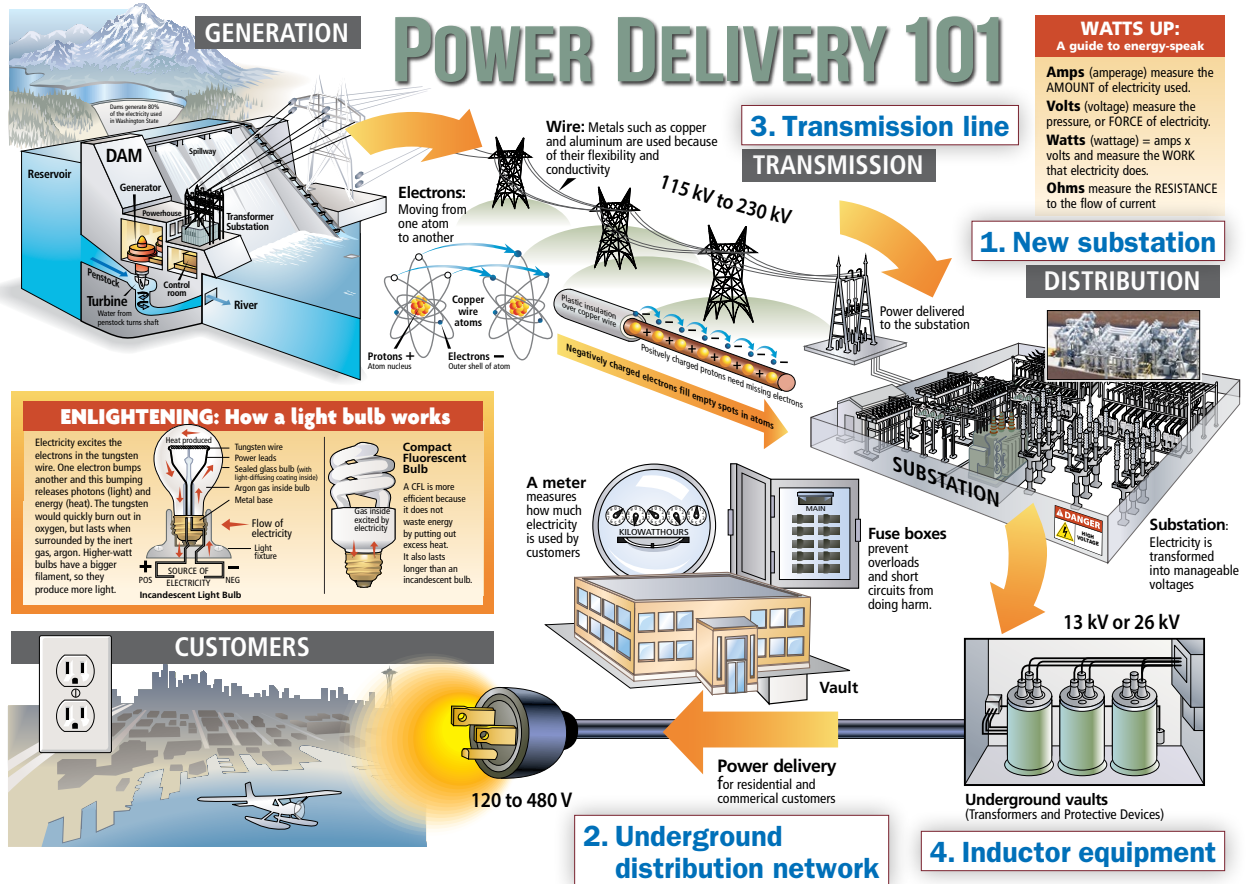
## WHAT IS THE DENNY SUBSTATION PROJECT?

### Project Components

1. **New substation** on 3-parcel site served by an existing underground transmission line
2. **Underground distribution network** in vicinity of new substation
3. **Transmission line** to existing Massachusetts Substation in SODO area
4. **Inductor equipment** at proposed Denny Substation and at existing Broad Substation

### Project Objectives

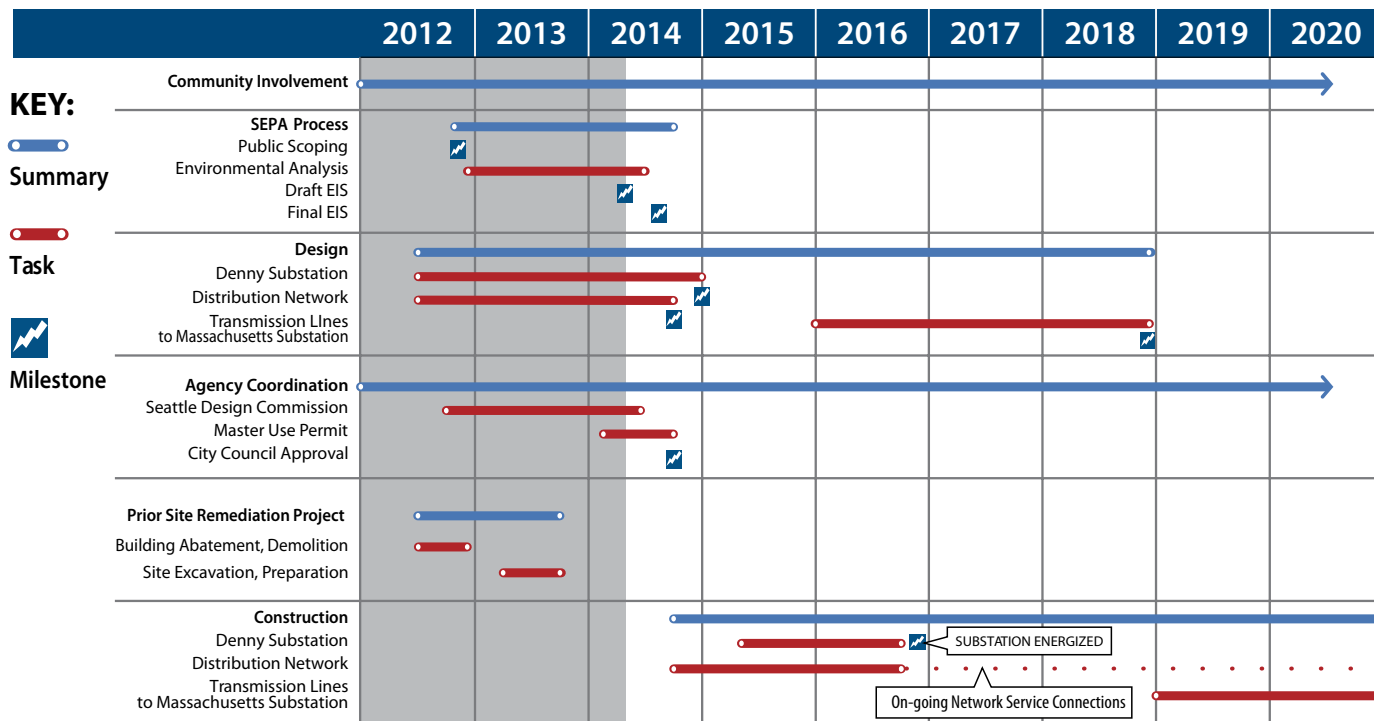
- Serve high density electrical load growth in the South Lake Union Urban Area and the north downtown area
- Meet the increased reliability requirements of high tech businesses and industries, as currently provided to Seattle's Central Business District
- Provide added capacity for serving existing networks in the Denny Triangle and First Hill areas
- Incorporate equipment to limit power flow through the South Lake Union and downtown areas that could adversely affect local service capability
- Create options for meeting future system capacity needs beyond 2030
- Design to meet or exceed the requirements of all applicable environmental laws, regulations and policies



# Timelines

## THE PROJECT & THE DRAFT EIS

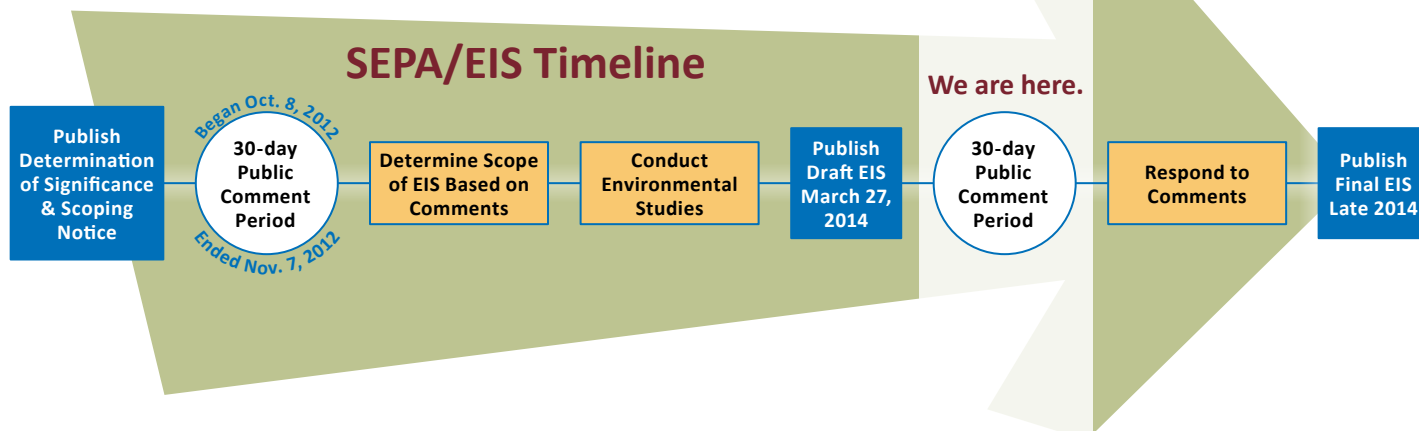
### Project Timeline



\* Schedule is current as of January 2014

### EIS Timeline

An EIS is first issued as a Draft Environmental Impact Statement (DEIS) to invite review and comments on the content and conclusions of the analysis. Comments are considered and responses are developed. Corrections and revisions are made before the DEIS is finalized and issued as a Final EIS (FEIS).



# Elements of the Environment

EIS Element	Main aspects studied
<b>Aesthetics</b>	Changes to existing visual character, primarily: <ul style="list-style-type: none"> <li>• Height, bulk and scale</li> <li>• Public view protection</li> <li>• Light and glare</li> <li>• Adopted design guidelines</li> </ul>
<b>Noise</b>	During construction: equipment and vehicles (workers, deliveries, hauling) During operation: transmission lines, substation equipment, maintenance activities, vehicles to, from and around the site
<b>Environmental Health</b>	Potential soil and groundwater contaminants Electric and Magnetic Fields (EMF)
<b>Transportation</b>	Effects of construction timing, detours and street closures on vehicles, transit, walking, bicycling Changes to local circulation with street vacation Parking
<b>Land Use &amp; Housing</b>	Any project effects to existing land use and housing Conformance of project with: <ul style="list-style-type: none"> <li>• City of Seattle plans, policies, regulations, and standards</li> <li>• Seattle City Light policies</li> <li>• Policies of affected agencies</li> </ul>
<b>Historic &amp; Cultural Resources</b>	Historic buildings Native American and historic-era archaeological resources
<b>Air Quality &amp; Greenhouse Gas</b>	Potential air pollutants and greenhouse gas (GHG) emissions <ul style="list-style-type: none"> <li>• During construction: diesel equipment and vehicles and dust</li> <li>• During operations: emissions of sulfur hexafluoride (a GHG used in substation equipment) and occasional vehicle trips for maintenance (No employees will be stationed on-site.)</li> </ul>
<b>Utilities</b>	Potential for disruptions of existing utility services during construction Any substantial utility relocations or conflicts: electricity, steam, natural gas, water, stormwater, sanitary sewer, cable/internet/telephone
<b>Water Resources</b>	Stormwater runoff conditions during and after construction Stormwater impacts on Lake Union, Elliott Bay, Duwamish Waterway Shallow groundwater conditions relative to stormwater runoff infiltration
<b>Energy &amp; Natural Resources</b>	Electrical service obligations under state law and regional agreements Energy to construct and operate the energy delivery system Energy impacts of construction and operation by fuel type and life cycle

